	Application No.	Applicant(s)	
		TAKASHIMA, DAISABURO	
Notice of Allowability	10/801,562 Examiner	Art Unit	
	Ly D Pham	2818	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication.  If not included will be mailed in due course.  THI	IS iati∨e
1. X This communication is responsive to 17 March 2004.			
2. The allowed claim(s) is/are 17.			
3. The drawings filed on 17 March 2004 are accepted by the Examiner.			
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No. 09/902,168.</li> <li>3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			
6. CORRECTED DRAWINGS ( as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet in the sheet i	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawing to 37 CFR 1.121(c)	Office action of ngs in the front (not the back) of d).	
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.	
	6.  Interview Summary Paper No./Mail Dat Date: David Nelms  Interview Summary Paper No./Mail Dat Paper No./M	e	
Technology Center 2800			

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## **DETAILED ACTION**

1. Applicant's Pre-Amendment filed March 17, 2004 has been entered. The specification

has been amended. Claims 1 - 16 and 18 - 20 have been canceled.

2. Claim 17 is presented for the examination.

## Allowable Subject Matter

3. Claim 17 is allowed.

4. The following is an examiner's statement of reasons for allowance:

The prior arts teach a semiconductor memory device comprising:

a memory cell array including a plurality of memory cell blocks each having a plurality

of row decoders with a plurality of row lines, a plurality of plate lines driver with a plurality of

plate lines, each of said memory cell blocks includes a plurality of series-connected memory

cells and at least one selection transistor serially connected to at least one end of the series-

connected portion, one end of each of said memory cell blocks is coupled to a corresponding one

of a bit line, the other end is connected to a corresponding one of the plate lines, a gate terminal

of each cell transistor is connected to a corresponding one of the sub-word lines, the memory cell

includes the cell transistor and a ferroelectric capacitor connected between source and drain

terminals of the cell transistor.

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The prior arts however did not teach the memory cell array above, further including a plurality of sub-arrays, a plurality of sub-row decoders provided between the plurality of respective sub-arrays, a main row decoder disposed on one-end side of the plurality of sub-arrays in a sub-word line direction, and a plurality of main-block selecting lines for respectively supplying outputs of said main row decoder to said sub-row decoders;

wherein the plurality of sub-arrays each include said plurality of sub-word lines, a plurality of bit lines, a plurality of plate lines and a plurality of memory cell blocks, the plurality of sub-arrays are arranged in the sub-word line direction, a metal interconnection used for forming the plate lines and a metal interconnection used for forming the main-block selecting lines are formed by metal interconnection layers at the same level, and a metal interconnection used for parallel connection of the cell transistor and the ferroelectric capacitor is formed by a metal interconnection layer formed at the same level as the plate lines and the main-block selecting lines.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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7. A shortened statutory period for response to this action is set to expire 3 (three) months

and 0 (zero) day from the date of this letter. Failure to respond within the period for response

will cause the application to become abandoned (see MPEP 710.02(b)).

8. Any inquiry concerning this communication on earlier communications from the

examiner should be directed to Ly Pham, whose telephone number is 571-272-1793. The

examiner can normally be reached on Monday - Friday from 8:30am to 5:00pm, alternate Friday

off. The examiner's supervisor, David Nelms, can be reached at 571-272-1787. The fax number

for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0956.

Ly Pham

June 23, 2004

David Nelms

Supervisory Patent Examiner Technology Center 2800 Page 4